Release notes for ENDF/B Development n-060_Nd_144 evaluation

April 26, 2017

- **checkr** Warnings:

  1. A previous error halted parsing of the current section
     MAT=6031, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT=6031, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER     246 TO     474
     ```

- **checkr** Errors:

  1. A variable is outside the allowed ENDF range
     MAT=6031, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT=6031, MF= 1, MT=451
         MOD =     1 OUT OF RANGE    0 -    0          RECORD NUMBER     246
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 2, MT=151 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6031, MF= 2, MT=151
         SECTION  2/151 NOT IN DIRECTORY              RECORD NUMBER     476
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 3, MT= 1 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT=  1
         SECTION  3/  1 NOT IN DIRECTORY              RECORD NUMBER     626
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 3, MT= 2 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT=  2
         SECTION  3/  2 NOT IN DIRECTORY              RECORD NUMBER     644
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 3, MT= 4 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT=  4
         SECTION  3/  4 NOT IN DIRECTORY              RECORD NUMBER     683
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 3, MT= 16 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 16
         SECTION  3/ 16 NOT IN DIRECTORY              RECORD NUMBER     716
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 3, MT= 17 (0): Directory (b)

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```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 17
          SECTION  3/ 17 NOT IN DIRECTORY                 RECORD NUMBER     725
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 3, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 22
          SECTION  3/ 22 NOT IN DIRECTORY                 RECORD NUMBER     732
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 3, MT= 24 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 24
          SECTION  3/ 24 NOT IN DIRECTORY                 RECORD NUMBER     743
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 28
          SECTION  3/ 28 NOT IN DIRECTORY                 RECORD NUMBER     751
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 41 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 41
          SECTION  3/ 41 NOT IN DIRECTORY                 RECORD NUMBER     760
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 51
          SECTION  3/ 51 NOT IN DIRECTORY                 RECORD NUMBER     766
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 52
          SECTION  3/ 52 NOT IN DIRECTORY                 RECORD NUMBER     785
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 53
          SECTION  3/ 53 NOT IN DIRECTORY                 RECORD NUMBER     801
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 54 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 54
            SECTION  3/ 54 NOT IN DIRECTORY                 RECORD NUMBER     816
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 55 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 55
            SECTION  3/ 55 NOT IN DIRECTORY                 RECORD NUMBER     832
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 56 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 56
            SECTION  3/ 56 NOT IN DIRECTORY                 RECORD NUMBER     848
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 57 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 57
            SECTION  3/ 57 NOT IN DIRECTORY                 RECORD NUMBER     863
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 58 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 58
            SECTION  3/ 58 NOT IN DIRECTORY                 RECORD NUMBER     877
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 59 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 59
            SECTION  3/ 59 NOT IN DIRECTORY                 RECORD NUMBER     892
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 60 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 60
            SECTION  3/ 60 NOT IN DIRECTORY                 RECORD NUMBER     907
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 61 (0): Directory (b)

```
          ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 61
            SECTION  3/ 61 NOT IN DIRECTORY                 RECORD NUMBER     922
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 62
          SECTION  3/ 62 NOT IN DIRECTORY                  RECORD NUMBER      937
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 63
          SECTION  3/ 63 NOT IN DIRECTORY                  RECORD NUMBER      951
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 64
          SECTION  3/ 64 NOT IN DIRECTORY                  RECORD NUMBER      966
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 65
          SECTION  3/ 65 NOT IN DIRECTORY                  RECORD NUMBER      980
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 66
          SECTION  3/ 66 NOT IN DIRECTORY                  RECORD NUMBER      994
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 67
          SECTION  3/ 67 NOT IN DIRECTORY                  RECORD NUMBER     1008
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 68
          SECTION  3/ 68 NOT IN DIRECTORY                  RECORD NUMBER     1022
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 69
          SECTION  3/ 69 NOT IN DIRECTORY                  RECORD NUMBER     1036
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 70 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 70
        SECTION  3/ 70 NOT IN DIRECTORY                 RECORD NUMBER    1049
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 71 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 71
        SECTION  3/ 71 NOT IN DIRECTORY                 RECORD NUMBER    1063
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 72 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 72
        SECTION  3/ 72 NOT IN DIRECTORY                 RECORD NUMBER    1077
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 73 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 73
        SECTION  3/ 73 NOT IN DIRECTORY                 RECORD NUMBER    1091
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 74 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 74
        SECTION  3/ 74 NOT IN DIRECTORY                 RECORD NUMBER    1104
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 75 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 75
        SECTION  3/ 75 NOT IN DIRECTORY                 RECORD NUMBER    1118
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 76 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 76
        SECTION  3/ 76 NOT IN DIRECTORY                 RECORD NUMBER    1131
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 77 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 77
        SECTION  3/ 77 NOT IN DIRECTORY                 RECORD NUMBER    1144
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 78 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 78
          SECTION   3/ 78 NOT IN DIRECTORY                 RECORD NUMBER    1157
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 79 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 79
          SECTION   3/ 79 NOT IN DIRECTORY                 RECORD NUMBER    1170
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 80 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 80
          SECTION   3/ 80 NOT IN DIRECTORY                 RECORD NUMBER    1183
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 81 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 81
          SECTION   3/ 81 NOT IN DIRECTORY                 RECORD NUMBER    1196
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 82 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 82
          SECTION   3/ 82 NOT IN DIRECTORY                 RECORD NUMBER    1209
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 83 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 83
          SECTION   3/ 83 NOT IN DIRECTORY                 RECORD NUMBER    1222
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 84 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 84
          SECTION   3/ 84 NOT IN DIRECTORY                 RECORD NUMBER    1235
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 85 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 85
          SECTION   3/ 85 NOT IN DIRECTORY                 RECORD NUMBER    1248
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 86 (0): Directory (b)

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```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 86
           SECTION  3/ 86 NOT IN DIRECTORY                    RECORD NUMBER    1261
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 87 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 87
           SECTION  3/ 87 NOT IN DIRECTORY                    RECORD NUMBER    1274
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 88 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 88
           SECTION  3/ 88 NOT IN DIRECTORY                    RECORD NUMBER    1287
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 89 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 89
           SECTION  3/ 89 NOT IN DIRECTORY                    RECORD NUMBER    1300
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT= 91
           SECTION  3/ 91 NOT IN DIRECTORY                    RECORD NUMBER    1313
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=102 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=102
           SECTION  3/102 NOT IN DIRECTORY                    RECORD NUMBER    1332
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=103 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=103
           SECTION  3/103 NOT IN DIRECTORY                    RECORD NUMBER    1353
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=107 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=107
           SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1364
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=600 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=600
          SECTION  3/600 NOT IN DIRECTORY                    RECORD NUMBER    1386
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=649 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=649
          SECTION  3/649 NOT IN DIRECTORY                    RECORD NUMBER    1397
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=800 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=800
          SECTION  3/800 NOT IN DIRECTORY                    RECORD NUMBER    1408
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=801 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=801
          SECTION  3/801 NOT IN DIRECTORY                    RECORD NUMBER    1429
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=802 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=802
          SECTION  3/802 NOT IN DIRECTORY                    RECORD NUMBER    1450
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=803 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=803
          SECTION  3/803 NOT IN DIRECTORY                    RECORD NUMBER    1471
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=804 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=804
          SECTION  3/804 NOT IN DIRECTORY                    RECORD NUMBER    1492
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=805 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 3, MT=805
          SECTION  3/805 NOT IN DIRECTORY                    RECORD NUMBER    1514
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 3, MT=806 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=806
          SECTION  3/806 NOT IN DIRECTORY              RECORD NUMBER    1536
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 3, MT=807 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=807
          SECTION  3/807 NOT IN DIRECTORY              RECORD NUMBER    1558
```

65. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 3, MT=808 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=808
          SECTION  3/808 NOT IN DIRECTORY              RECORD NUMBER    1579
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 3, MT=809 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=809
          SECTION  3/809 NOT IN DIRECTORY              RECORD NUMBER    1600
```

67. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 3, MT=810 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=810
          SECTION  3/810 NOT IN DIRECTORY              RECORD NUMBER    1621
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 3, MT=849 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 3, MT=849
          SECTION  3/849 NOT IN DIRECTORY              RECORD NUMBER    1642
```

69. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 4, MT= 2 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=  2
          SECTION  4/  2 NOT IN DIRECTORY              RECORD NUMBER    1665
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 4, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 51
          SECTION  4/ 51 NOT IN DIRECTORY              RECORD NUMBER    1840
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF= 4, MT= 52 (0): Directory (b)

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```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 52
         SECTION  4/ 52 NOT IN DIRECTORY                RECORD NUMBER    1974
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 53
         SECTION  4/ 53 NOT IN DIRECTORY                RECORD NUMBER    2086
```

73. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 54
         SECTION  4/ 54 NOT IN DIRECTORY                RECORD NUMBER    2195
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 55
         SECTION  4/ 55 NOT IN DIRECTORY                RECORD NUMBER    2306
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 56
         SECTION  4/ 56 NOT IN DIRECTORY                RECORD NUMBER    2381
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 57
         SECTION  4/ 57 NOT IN DIRECTORY                RECORD NUMBER    2480
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 58 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 58
         SECTION  4/ 58 NOT IN DIRECTORY                RECORD NUMBER    2581
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 59 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 59
         SECTION  4/ 59 NOT IN DIRECTORY                RECORD NUMBER    2650
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 60 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 60
          SECTION  4/ 60 NOT IN DIRECTORY                  RECORD NUMBER    2719
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 61 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 61
          SECTION  4/ 61 NOT IN DIRECTORY                  RECORD NUMBER    2788
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 62 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 62
          SECTION  4/ 62 NOT IN DIRECTORY                  RECORD NUMBER    2855
```

82. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 63 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 63
          SECTION  4/ 63 NOT IN DIRECTORY                  RECORD NUMBER    2922
```

83. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 64 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 64
          SECTION  4/ 64 NOT IN DIRECTORY                  RECORD NUMBER    2989
```

84. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 65 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 65
          SECTION  4/ 65 NOT IN DIRECTORY                  RECORD NUMBER    3056
```

85. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 66 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 66
          SECTION  4/ 66 NOT IN DIRECTORY                  RECORD NUMBER    3121
```

86. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 67 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 67
          SECTION  4/ 67 NOT IN DIRECTORY                  RECORD NUMBER    3186
```

87. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 68 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 68
         SECTION  4/ 68 NOT IN DIRECTORY                   RECORD NUMBER    3251
```

88. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 69 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 69
         SECTION  4/ 69 NOT IN DIRECTORY                   RECORD NUMBER    3314
```

89. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 70 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 70
         SECTION  4/ 70 NOT IN DIRECTORY                   RECORD NUMBER    3377
```

90. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 71 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 71
         SECTION  4/ 71 NOT IN DIRECTORY                   RECORD NUMBER    3440
```

91. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 72 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 72
         SECTION  4/ 72 NOT IN DIRECTORY                   RECORD NUMBER    3503
```

92. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 73 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 73
         SECTION  4/ 73 NOT IN DIRECTORY                   RECORD NUMBER    3564
```

93. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 74 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 74
         SECTION  4/ 74 NOT IN DIRECTORY                   RECORD NUMBER    3625
```

94. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 75 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 75
         SECTION  4/ 75 NOT IN DIRECTORY                   RECORD NUMBER    3686
```

95. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF= 4, MT= 76 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 76
          SECTION  4/ 76 NOT IN DIRECTORY                    RECORD NUMBER    3745
```

96. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 77$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 77
          SECTION  4/ 77 NOT IN DIRECTORY                    RECORD NUMBER    3804
```

97. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 78$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 78
          SECTION  4/ 78 NOT IN DIRECTORY                    RECORD NUMBER    3863
```

98. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 79$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 79
          SECTION  4/ 79 NOT IN DIRECTORY                    RECORD NUMBER    3922
```

99. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 80$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 80
          SECTION  4/ 80 NOT IN DIRECTORY                    RECORD NUMBER    3981
```

100. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 81$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 81
          SECTION  4/ 81 NOT IN DIRECTORY                    RECORD NUMBER    4040
```

101. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 82$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 82
          SECTION  4/ 82 NOT IN DIRECTORY                    RECORD NUMBER    4099
```

102. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 83$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 83
          SECTION  4/ 83 NOT IN DIRECTORY                    RECORD NUMBER    4158
```

103. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6031$, $MF= 4$, $MT= 84$ (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 84
           SECTION  4/ 84 NOT IN DIRECTORY              RECORD NUMBER    4217
```

104. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT= 85 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 85
           SECTION  4/ 85 NOT IN DIRECTORY              RECORD NUMBER    4274
```

105. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT= 86 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 86
           SECTION  4/ 86 NOT IN DIRECTORY              RECORD NUMBER    4331
```

106. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT= 87 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 87
           SECTION  4/ 87 NOT IN DIRECTORY              RECORD NUMBER    4388
```

107. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT= 88 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 88
           SECTION  4/ 88 NOT IN DIRECTORY              RECORD NUMBER    4445
```

108. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT= 89 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT= 89
           SECTION  4/ 89 NOT IN DIRECTORY              RECORD NUMBER    4502
```

109. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT=600 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT=600
           SECTION  4/600 NOT IN DIRECTORY              RECORD NUMBER    4559
```

110. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT=800 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6031, MF= 4, MT=800
           SECTION  4/800 NOT IN DIRECTORY              RECORD NUMBER    4604
```

111. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF= 4, MT=801 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=801
           SECTION  4/801 NOT IN DIRECTORY                RECORD NUMBER    4695
```

112. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=802 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=802
           SECTION  4/802 NOT IN DIRECTORY                RECORD NUMBER    4786
```

113. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=803 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=803
           SECTION  4/803 NOT IN DIRECTORY                RECORD NUMBER    4877
```

114. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=804 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=804
           SECTION  4/804 NOT IN DIRECTORY                RECORD NUMBER    4968
```

115. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=805 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=805
           SECTION  4/805 NOT IN DIRECTORY                RECORD NUMBER    5059
```

116. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=806 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=806
           SECTION  4/806 NOT IN DIRECTORY                RECORD NUMBER    5150
```

117. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=807 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=807
           SECTION  4/807 NOT IN DIRECTORY                RECORD NUMBER    5241
```

118. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=808 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF= 4, MT=808
           SECTION  4/808 NOT IN DIRECTORY                RECORD NUMBER    5332
```

119. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=809 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 4, MT=809
                SECTION  4/809 NOT IN DIRECTORY                RECORD NUMBER    5423
```

120. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 4, MT=810 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 4, MT=810
                SECTION  4/810 NOT IN DIRECTORY                RECORD NUMBER    5514
```

121. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 6, MT= 16 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 6, MT= 16
                SECTION  6/ 16 NOT IN DIRECTORY                RECORD NUMBER    5606
```

122. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 6, MT= 17 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 6, MT= 17
                SECTION  6/ 17 NOT IN DIRECTORY                RECORD NUMBER    7032
```

123. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 6, MT= 22 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 6, MT= 22
                SECTION  6/ 22 NOT IN DIRECTORY                RECORD NUMBER    7426
```

124. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 6, MT= 24 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 6, MT= 24
                SECTION  6/ 24 NOT IN DIRECTORY                RECORD NUMBER   10680
```

125. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 6, MT= 28 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 6, MT= 28
                SECTION  6/ 28 NOT IN DIRECTORY                RECORD NUMBER   11374
```

126. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 6, MT= 41 (0): Directory (b)

```
           ERROR(S) FOUND IN MAT=6031, MF= 6, MT= 41
                SECTION  6/ 41 NOT IN DIRECTORY                RECORD NUMBER   12698
```

127. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF= 6, MT= 91 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF= 6, MT= 91
     SECTION  6/ 91 NOT IN DIRECTORY                RECORD NUMBER   12849
```

128. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=6$, $MT=102$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF= 6, MT=102
     SECTION  6/102 NOT IN DIRECTORY                RECORD NUMBER   18007
```

129. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=6$, $MT=649$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF= 6, MT=649
     SECTION  6/649 NOT IN DIRECTORY                RECORD NUMBER   20337
```

130. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=6$, $MT=849$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF= 6, MT=849
     SECTION  6/849 NOT IN DIRECTORY                RECORD NUMBER   21585
```

131. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=51$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=12, MT= 51
     SECTION 12/ 51 NOT IN DIRECTORY                RECORD NUMBER   24369
```

132. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=52$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=12, MT= 52
     SECTION 12/ 52 NOT IN DIRECTORY                RECORD NUMBER   24373
```

133. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=53$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=12, MT= 53
     SECTION 12/ 53 NOT IN DIRECTORY                RECORD NUMBER   24377
```

134. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=54$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=12, MT= 54
     SECTION 12/ 54 NOT IN DIRECTORY                RECORD NUMBER   24381
```

135. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=55$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 55
         SECTION 12/ 55 NOT IN DIRECTORY                RECORD NUMBER    24385
```

136. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 56
         SECTION 12/ 56 NOT IN DIRECTORY                RECORD NUMBER    24389
```

137. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 57
         SECTION 12/ 57 NOT IN DIRECTORY                RECORD NUMBER    24393
```

138. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 58 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 58
         SECTION 12/ 58 NOT IN DIRECTORY                RECORD NUMBER    24397
```

139. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 59 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 59
         SECTION 12/ 59 NOT IN DIRECTORY                RECORD NUMBER    24401
```

140. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 60 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 60
         SECTION 12/ 60 NOT IN DIRECTORY                RECORD NUMBER    24405
```

141. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 61 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 61
         SECTION 12/ 61 NOT IN DIRECTORY                RECORD NUMBER    24409
```

142. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 62 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 62
         SECTION 12/ 62 NOT IN DIRECTORY                RECORD NUMBER    24414
```

143. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 63 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 63
          SECTION 12/ 63 NOT IN DIRECTORY                RECORD NUMBER   24418
```

144. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 64 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 64
          SECTION 12/ 64 NOT IN DIRECTORY                RECORD NUMBER   24422
```

145. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 65 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 65
          SECTION 12/ 65 NOT IN DIRECTORY                RECORD NUMBER   24426
```

146. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 66 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 66
          SECTION 12/ 66 NOT IN DIRECTORY                RECORD NUMBER   24431
```

147. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 67 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 67
          SECTION 12/ 67 NOT IN DIRECTORY                RECORD NUMBER   24435
```

148. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 68 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 68
          SECTION 12/ 68 NOT IN DIRECTORY                RECORD NUMBER   24439
```

149. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 69 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 69
          SECTION 12/ 69 NOT IN DIRECTORY                RECORD NUMBER   24443
```

150. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 70 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 70
          SECTION 12/ 70 NOT IN DIRECTORY                RECORD NUMBER   24447
```

151. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 71 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 71
          SECTION 12/ 71 NOT IN DIRECTORY                    RECORD NUMBER    24451
```

152. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=72$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 72
          SECTION 12/ 72 NOT IN DIRECTORY                    RECORD NUMBER    24455
```

153. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=73$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 73
          SECTION 12/ 73 NOT IN DIRECTORY                    RECORD NUMBER    24459
```

154. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=74$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 74
          SECTION 12/ 74 NOT IN DIRECTORY                    RECORD NUMBER    24463
```

155. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=75$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 75
          SECTION 12/ 75 NOT IN DIRECTORY                    RECORD NUMBER    24467
```

156. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=76$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 76
          SECTION 12/ 76 NOT IN DIRECTORY                    RECORD NUMBER    24471
```

157. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=77$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 77
          SECTION 12/ 77 NOT IN DIRECTORY                    RECORD NUMBER    24475
```

158. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=78$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 78
          SECTION 12/ 78 NOT IN DIRECTORY                    RECORD NUMBER    24479
```

159. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6031$, $MF=12$, $MT=79$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 79
           SECTION 12/ 79 NOT IN DIRECTORY                RECORD NUMBER   24483
```

160. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 80 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 80
           SECTION 12/ 80 NOT IN DIRECTORY                RECORD NUMBER   24487
```

161. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 81 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 81
           SECTION 12/ 81 NOT IN DIRECTORY                RECORD NUMBER   24491
```

162. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 82 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 82
           SECTION 12/ 82 NOT IN DIRECTORY                RECORD NUMBER   24495
```

163. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 83 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 83
           SECTION 12/ 83 NOT IN DIRECTORY                RECORD NUMBER   24499
```

164. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 84 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 84
           SECTION 12/ 84 NOT IN DIRECTORY                RECORD NUMBER   24503
```

165. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 85 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 85
           SECTION 12/ 85 NOT IN DIRECTORY                RECORD NUMBER   24507
```

166. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 86 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT= 86
           SECTION 12/ 86 NOT IN DIRECTORY                RECORD NUMBER   24511
```

167. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=12, MT= 87 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 87
         SECTION 12/ 87 NOT IN DIRECTORY                 RECORD NUMBER    24515
```

168. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 88 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 88
         SECTION 12/ 88 NOT IN DIRECTORY                 RECORD NUMBER    24519
```

169. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT= 89 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT= 89
         SECTION 12/ 89 NOT IN DIRECTORY                 RECORD NUMBER    24523
```

170. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT=801 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT=801
         SECTION 12/801 NOT IN DIRECTORY                 RECORD NUMBER    24527
```

171. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT=802 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT=802
         SECTION 12/802 NOT IN DIRECTORY                 RECORD NUMBER    24531
```

172. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT=803 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT=803
         SECTION 12/803 NOT IN DIRECTORY                 RECORD NUMBER    24535
```

173. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT=804 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT=804
         SECTION 12/804 NOT IN DIRECTORY                 RECORD NUMBER    24539
```

174. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT=805 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=12, MT=805
         SECTION 12/805 NOT IN DIRECTORY                 RECORD NUMBER    24543
```

175. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=12, MT=806 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT=806
            SECTION 12/806 NOT IN DIRECTORY                    RECORD NUMBER    24547
```

176. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=12, MT=807 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT=807
            SECTION 12/807 NOT IN DIRECTORY                    RECORD NUMBER    24551
```

177. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=12, MT=808 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT=808
            SECTION 12/808 NOT IN DIRECTORY                    RECORD NUMBER    24555
```

178. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=12, MT=809 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT=809
            SECTION 12/809 NOT IN DIRECTORY                    RECORD NUMBER    24559
```

179. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=12, MT=810 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=12, MT=810
            SECTION 12/810 NOT IN DIRECTORY                    RECORD NUMBER    24563
```

180. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 51
            SECTION 14/ 51 NOT IN DIRECTORY                    RECORD NUMBER    24568
```

181. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 52
            SECTION 14/ 52 NOT IN DIRECTORY                    RECORD NUMBER    24570
```

182. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 53
            SECTION 14/ 53 NOT IN DIRECTORY                    RECORD NUMBER    24572
```

183. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 54
           SECTION 14/ 54 NOT IN DIRECTORY              RECORD NUMBER    24574
```

184. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 55
           SECTION 14/ 55 NOT IN DIRECTORY              RECORD NUMBER    24576
```

185. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 56
           SECTION 14/ 56 NOT IN DIRECTORY              RECORD NUMBER    24578
```

186. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 57
           SECTION 14/ 57 NOT IN DIRECTORY              RECORD NUMBER    24580
```

187. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 58
           SECTION 14/ 58 NOT IN DIRECTORY              RECORD NUMBER    24582
```

188. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 59
           SECTION 14/ 59 NOT IN DIRECTORY              RECORD NUMBER    24584
```

189. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 60
           SECTION 14/ 60 NOT IN DIRECTORY              RECORD NUMBER    24586
```

190. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 61
           SECTION 14/ 61 NOT IN DIRECTORY              RECORD NUMBER    24588
```

191. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 62
            SECTION 14/ 62 NOT IN DIRECTORY                    RECORD NUMBER    24590
```

192. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 63
            SECTION 14/ 63 NOT IN DIRECTORY                    RECORD NUMBER    24592
```

193. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 64
            SECTION 14/ 64 NOT IN DIRECTORY                    RECORD NUMBER    24594
```

194. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 65
            SECTION 14/ 65 NOT IN DIRECTORY                    RECORD NUMBER    24596
```

195. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 66
            SECTION 14/ 66 NOT IN DIRECTORY                    RECORD NUMBER    24598
```

196. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 67
            SECTION 14/ 67 NOT IN DIRECTORY                    RECORD NUMBER    24600
```

197. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 68
            SECTION 14/ 68 NOT IN DIRECTORY                    RECORD NUMBER    24602
```

198. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 69
            SECTION 14/ 69 NOT IN DIRECTORY                    RECORD NUMBER    24604
```

199. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 70 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 70
     SECTION 14/ 70 NOT IN DIRECTORY            RECORD NUMBER   24606
```

200. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 71 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 71
     SECTION 14/ 71 NOT IN DIRECTORY            RECORD NUMBER   24608
```

201. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 72 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 72
     SECTION 14/ 72 NOT IN DIRECTORY            RECORD NUMBER   24610
```

202. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 73 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 73
     SECTION 14/ 73 NOT IN DIRECTORY            RECORD NUMBER   24612
```

203. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 74 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 74
     SECTION 14/ 74 NOT IN DIRECTORY            RECORD NUMBER   24614
```

204. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 75 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 75
     SECTION 14/ 75 NOT IN DIRECTORY            RECORD NUMBER   24616
```

205. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 76 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 76
     SECTION 14/ 76 NOT IN DIRECTORY            RECORD NUMBER   24618
```

206. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 77 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6031, MF=14, MT= 77
     SECTION 14/ 77 NOT IN DIRECTORY            RECORD NUMBER   24620
```

207. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6031, MF=14, MT= 78 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 78
         SECTION 14/ 78 NOT IN DIRECTORY                RECORD NUMBER   24622
```

208. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 79 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 79
         SECTION 14/ 79 NOT IN DIRECTORY                RECORD NUMBER   24624
```

209. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 80 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 80
         SECTION 14/ 80 NOT IN DIRECTORY                RECORD NUMBER   24626
```

210. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 81 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 81
         SECTION 14/ 81 NOT IN DIRECTORY                RECORD NUMBER   24628
```

211. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 82 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 82
         SECTION 14/ 82 NOT IN DIRECTORY                RECORD NUMBER   24630
```

212. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 83 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 83
         SECTION 14/ 83 NOT IN DIRECTORY                RECORD NUMBER   24632
```

213. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 84 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 84
         SECTION 14/ 84 NOT IN DIRECTORY                RECORD NUMBER   24634
```

214. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 85 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6031, MF=14, MT= 85
         SECTION 14/ 85 NOT IN DIRECTORY                RECORD NUMBER   24636
```

215. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6031, MF=14, MT= 86 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 86
           SECTION 14/ 86 NOT IN DIRECTORY                  RECORD NUMBER   24638
```

216. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT= 87 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 87
           SECTION 14/ 87 NOT IN DIRECTORY                  RECORD NUMBER   24640
```

217. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT= 88 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 88
           SECTION 14/ 88 NOT IN DIRECTORY                  RECORD NUMBER   24642
```

218. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT= 89 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT= 89
           SECTION 14/ 89 NOT IN DIRECTORY                  RECORD NUMBER   24644
```

219. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT=801 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=801
           SECTION 14/801 NOT IN DIRECTORY                  RECORD NUMBER   24646
```

220. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT=802 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=802
           SECTION 14/802 NOT IN DIRECTORY                  RECORD NUMBER   24648
```

221. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT=803 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=803
           SECTION 14/803 NOT IN DIRECTORY                  RECORD NUMBER   24650
```

222. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT=804 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=804
           SECTION 14/804 NOT IN DIRECTORY                  RECORD NUMBER   24652
```

223. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6031, MF=14, MT=805 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=805
            SECTION 14/805 NOT IN DIRECTORY                  RECORD NUMBER   24654
```

224. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT=806 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=806
            SECTION 14/806 NOT IN DIRECTORY                  RECORD NUMBER   24656
```

225. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT=807 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=807
            SECTION 14/807 NOT IN DIRECTORY                  RECORD NUMBER   24658
```

226. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT=808 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=808
            SECTION 14/808 NOT IN DIRECTORY                  RECORD NUMBER   24660
```

227. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT=809 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=809
            SECTION 14/809 NOT IN DIRECTORY                  RECORD NUMBER   24662
```

228. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6031, MF=14, MT=810 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6031, MF=14, MT=810
            SECTION 14/810 NOT IN DIRECTORY                  RECORD NUMBER   24664
```

- psyche Warnings:

    1. Strength function in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ISOTOPE MASS = 144. L = 1 / STRENGTH FUNCTION IS 8.28523E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
    FILE  2
        SECTION 151
            ISOTOPE MASS = 144. L =  1
                        STRENGTH FUNCTION IS  8.28523E-05
                                    AVERAGE GAMMA WIDTH 3.60000E-02
    ... [1 more lines]
```

    2. Strength function in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
      FILE  2
         SECTION 151
               ENERGY =  9.97500E+03. STRENGTH FUNCTION IS   9.20000E-05
                              AVERAGE GAMMA WIDTH 3.60000E-02
                                           LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```
`... [9 more lines]`

3. Strength function in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.70000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
      FILE  2
         SECTION 151
               ENERGY =  9.97500E+03. STRENGTH FUNCTION IS   9.20000E-05
                              AVERAGE GAMMA WIDTH 3.70000E-02
                                           LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

4. Strength function in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.80000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
      FILE  2
         SECTION 151
               ENERGY =  9.97500E+03. STRENGTH FUNCTION IS   9.20000E-05
                              AVERAGE GAMMA WIDTH 3.80000E-02
                                           LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

5. Strength function in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.85000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
      FILE  2
         SECTION 151
               ENERGY =  9.97500E+03. STRENGTH FUNCTION IS   9.20000E-05
                              AVERAGE GAMMA WIDTH 3.85000E-02
                                           LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

6. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 9.20000E-05 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.44243E+02 SHOULD BE 2.21306E+02 (0): URR dens. (a)

```
      FILE  2
         SECTION 151
               ENERGY =  9.97500E+03. STRENGTH FUNCTION IS   9.20000E-05
                           ENERGY =  9.97500E+03. STRENGTH FUNCTION IS   9.20000E-05
                                       DENSITY  2.44243E+02 SHOULD BE   2.21306E+02
```

7. Level density in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.44233E+02 SHOULD BE 2.21296E+02 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  2.44233E+02 SHOULD BE  2.21296E+02
```

8. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE   2
    SECTION 151
            ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.60000E-02
                                        LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

9. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.40216E+02 SHOULD BE 2.17657E+02 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  2.40216E+02 SHOULD BE  2.17657E+02
```

10. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE   2
    SECTION 151
            ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.60000E-02
                                        LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

11. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.36269E+02 SHOULD BE 2.14081E+02 (0): URR dens. (a)

```
FILE   2
    SECTION 151
            ENERGY =  3.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  2.36269E+02 SHOULD BE  2.14081E+02
```

12. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE   2
    SECTION 151
            ENERGY =  3.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.60000E-02
                                        LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

13. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.32390E+02 SHOULD BE 2.10566E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  4.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                        DENSITY  2.32390E+02 SHOULD BE  2.10566E+02
```

14. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
          ENERGY =  4.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                        AVERAGE GAMMA WIDTH 3.60000E-02
                                     LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

15. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.28578E+02 SHOULD BE 2.07112E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  5.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                        DENSITY  2.28578E+02 SHOULD BE  2.07112E+02
```

16. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
          ENERGY =  5.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                        AVERAGE GAMMA WIDTH 3.60000E-02
                                     LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

17. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.24832E+02 SHOULD BE 2.03718E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  6.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                        DENSITY  2.24832E+02 SHOULD BE  2.03718E+02
```

18. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
            ENERGY =  6.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.60000E-02
                                          LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

19. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.21150E+02 SHOULD BE 2.00382E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  7.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  2.21150E+02 SHOULD BE  2.00382E+02
```

20. Strength function in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
            ENERGY =  7.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.60000E-02
                                          LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

21. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.17533E+02 SHOULD BE 1.97104E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  8.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  2.17533E+02 SHOULD BE  1.97104E+02
```

22. Strength function in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.60000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
            ENERGY =  8.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.60000E-02
                                          LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

23. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.13977E+02 SHOULD BE 1.93882E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  9.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  2.13977E+02 SHOULD BE  1.93882E+02
```

24. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.70000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
          ENERGY =  9.00000E+04. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.70000E-02
                                        LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

25. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 2.10482E+02 SHOULD BE 1.90715E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.00000E+05. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  2.10482E+02 SHOULD BE  1.90715E+02
```

26. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.80000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
          ENERGY =  1.00000E+05. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.80000E-02
                                        LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

27. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+05. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 1.93888E+02 SHOULD BE 1.75679E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
          ENERGY =  1.50000E+05. STRENGTH FUNCTION IS  9.20000E-05
                          DENSITY  1.93888E+02 SHOULD BE  1.75679E+02
```

28. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+05. STRENGTH FUNCTION IS 9.20000E-05 / AVERAGE GAMMA WIDTH 3.85000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE  2
   SECTION 151
          ENERGY =  1.50000E+05. STRENGTH FUNCTION IS  9.20000E-05
                          AVERAGE GAMMA WIDTH 3.85000E-02
                                        LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV.
```

29. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+05. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 1.78665E+02 SHOULD BE 1.61886E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  2.00000E+05. STRENGTH FUNCTION IS  9.20000E-05
                         DENSITY  1.78665E+02 SHOULD BE  1.61886E+02
```

30. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.50000E+05. STRENGTH FUNCTION IS 9.20000E-05 / DENSITY 1.64695E+02 SHOULD BE 1.49228E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  2.50000E+05. STRENGTH FUNCTION IS  9.20000E-05
                         DENSITY  1.64695E+02 SHOULD BE  1.49228E+02
```

31. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 3.00000E-04 / ENERGY = 9.97500E+03. STRENGTH FUNCTION IS 3.00000E-04 / DENSITY 1.91917E+02 SHOULD BE 1.62829E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
        ENERGY =  9.97500E+03. STRENGTH FUNCTION IS  3.00000E-04
                   ENERGY =  9.97500E+03. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.91917E+02 SHOULD BE  1.62829E+02
```

32. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 3.00000E-04 / DENSITY 1.91909E+02 SHOULD BE 1.62822E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  1.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.91909E+02 SHOULD BE  1.62822E+02
```

33. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.00000E-04 / DENSITY 1.88753E+02 SHOULD BE 1.60144E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  2.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.88753E+02 SHOULD BE  1.60144E+02
```

34. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 3.00000E-04 / DENSITY 1.85652E+02 SHOULD BE 1.57513E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
         ENERGY =  3.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.85652E+02 SHOULD BE  1.57513E+02
```

35. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 3.00000E-04 / DENSITY 1.82604E+02 SHOULD BE 1.54927E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  4.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.82604E+02 SHOULD BE  1.54927E+02
```

36. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS
    3.00000E-04 / DENSITY 1.79608E+02 SHOULD BE 1.52385E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  5.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.79608E+02 SHOULD BE  1.52385E+02
```

37. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS
    3.00000E-04 / DENSITY 1.76665E+02 SHOULD BE 1.49888E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  6.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.76665E+02 SHOULD BE  1.49888E+02
```

38. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS
    3.00000E-04 / DENSITY 1.73772E+02 SHOULD BE 1.47434E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  7.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.73772E+02 SHOULD BE  1.47434E+02
```

39. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS
    3.00000E-04 / DENSITY 1.70929E+02 SHOULD BE 1.45022E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  8.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.70929E+02 SHOULD BE  1.45022E+02
```

40. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS
    3.00000E-04 / DENSITY 1.68135E+02 SHOULD BE 1.42651E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
           ENERGY =  9.00000E+04. STRENGTH FUNCTION IS  3.00000E-04
                         DENSITY  1.68135E+02 SHOULD BE  1.42651E+02
```

41. Level density in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS
    3.00000E-04 / DENSITY 1.65389E+02 SHOULD BE 1.40322E+02 (0): URR dens. (a)

```
FILE  2
   SECTION 151
            ENERGY =  1.00000E+05. STRENGTH FUNCTION IS  3.00000E-04
                          DENSITY  1.65389E+02 SHOULD BE  1.40322E+02
```

42. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 1.50000E+05. STRENGTH FUNCTION IS
3.00000E-04 / DENSITY 1.52350E+02 SHOULD BE 1.29259E+02 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  1.50000E+05. STRENGTH FUNCTION IS  3.00000E-04
                          DENSITY  1.52350E+02 SHOULD BE  1.29259E+02
```

43. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.00000E+05. STRENGTH FUNCTION IS
3.00000E-04 / DENSITY 1.40389E+02 SHOULD BE 1.19110E+02 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.00000E+05. STRENGTH FUNCTION IS  3.00000E-04
                          DENSITY  1.40389E+02 SHOULD BE  1.19110E+02
```

44. Level density in URR not in agreement with PSYCHE's expectations
*FILE 2 / SECTION 151 / ENERGY = 2.50000E+05. STRENGTH FUNCTION IS
3.00000E-04 / DENSITY 1.29411E+02 SHOULD BE 1.09796E+02 (0): URR dens. (a)*

```
FILE  2
   SECTION 151
            ENERGY =  2.50000E+05. STRENGTH FUNCTION IS  3.00000E-04
                          DENSITY  1.29411E+02 SHOULD BE  1.09796E+02
```

45. Non-threshold reaction with Q value differing from PSYCHE's expectations
*FILE 3 / SECTION 107 / THE CALCULATED Q 7.35074E+06 DISSAGREES WITH
THE GIVEN Q 0.00000E+00 (0): Iffy Q*

```
FILE  3
   SECTION 107
            THE CALCULATED Q  7.35074E+06 DISSAGREES WITH THE GIVEN Q  0.00000E+00
```

- **linear** Errors:

    1. Negative cross section found
       0: Neg. Sig(E)

       ```
       Linearize ENDF/B Cross Sections (LINEAR 2015-1)
       --------------------------------------------------------------------------
       Retrieval Criteria-----------        MAT
       Monitor Mode----------------        Off
       Minimum Cross Section-------- 1.0000E-10 (Default Option)
       ... [107 more lines]
       ```

- **groupie** Errors:

    1. Very small elastic cross section found
       0: Small elastic

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-------------------------------------------------------------------------------
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- `fudge-4.0` Warnings:

    1. Missing a channel with a particular angular momenta combination
    resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

    ```
    WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
    WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
    WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
    WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
    ```

- `fudge-4.0` Errors:

    1. Calculated and tabulated Q values disagree.
    reaction label 41: n[multiplicity:'2'] + Nd143 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -7516522.915344238 eV vs -7.816e6 eV!
    ```

    2. Calculated and tabulated Q values disagree.
    reaction label 42: n[multiplicity:'3'] + Nd142 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -14093480.46626282 eV vs -1.3939e7 eV!
    ```

    3. Calculated and tabulated Q values disagree.
    reaction label 43: n + H1 + Pr143 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -7673291.981796265 eV vs -7.968e6 eV!
    ```

    4. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
    reaction label 43: n + H1 + Pr143 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

    ```
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.1e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.2e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.3e7 eV
            ... plus 8 more instances of this message
    ```

    5. Calculated and tabulated Q values disagree.
    reaction label 44: H1 + Pr144 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -2035899.795318604 eV vs -2.215e6 eV!
    ```

    6. Calculated and tabulated Q values disagree.
    reaction label 45: H1 + (Pr144_c ->Pr144 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -2035899.795318604 eV vs -2.215e6 eV!
    ```

7. Calculated and tabulated Q values disagree.
   reaction label 46: He4 + Ce141 (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: 7312021.805633545 eV vs 7.334e6 eV!
   ```

8. Calculated and tabulated Q values disagree.
   reaction label 47: He4 + Ce141_e1 (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: 6649961.805633545 eV vs 6671940. eV!
   ```

9. Calculated and tabulated Q values disagree.
   reaction label 48: He4 + Ce141_e2 (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: 6175021.805633545 eV vs 6.197e6 eV!
   ```

10. Calculated and tabulated Q values disagree.
    reaction label 49: He4 + Ce141_e3 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5957501.805633545 eV vs 5979480. eV!
    ```

11. Calculated and tabulated Q values disagree.
    reaction label 50: He4 + Ce141_e4 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5943321.805633545 eV vs 5.9653e6 eV!
    ```

12. Calculated and tabulated Q values disagree.
    reaction label 51: He4 + Ce141_e5 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5934021.805633545 eV vs 5.956e6 eV!
    ```

13. Calculated and tabulated Q values disagree.
    reaction label 52: He4 + Ce141_e6 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5815021.805633545 eV vs 5.837e6 eV!
    ```

14. Calculated and tabulated Q values disagree.
    reaction label 53: He4 + Ce141_e7 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5685521.805633545 eV vs 5.7075e6 eV!
    ```

15. Calculated and tabulated Q values disagree.
    reaction label 54: He4 + Ce141_e8 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5618721.805633545 eV vs 5.6407e6 eV!
    ```

16. Calculated and tabulated Q values disagree.
    reaction label 55: He4 + Ce141_e9 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5573021.805633545 eV vs 5.595e6 eV!
    ```

17. Calculated and tabulated Q values disagree.
    reaction label 56: He4 + Ce141_e10 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5527021.805633545 eV vs 5.549e6 eV!
    ```

18. Calculated and tabulated Q values disagree.
    reaction label 57: He4 + (Ce141_c ->Ce141 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5527021.805633545 eV vs 5.549e6 eV!
    ```

19. Calculated and tabulated Q values disagree.
    reaction label 58: Nd145 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5914491.670349121 eV vs 5.756e6 eV!
    ```

20. Calculated and tabulated Q values disagree.
    reaction label 59: n + He4 + Ce140 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 1674629.619110107 eV vs 1.906e6 eV!
    ```

21. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
    reaction label 59: n + He4 + Ce140 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

    ```
    WARNING: Extra zero-probability outgoing energies found at incident energy 5.e6 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 6.e6 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 7.e6 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 8.e6 eV
            ... plus 13 more instances of this message
    ```

22. Calculated and tabulated Q values disagree.
    reaction label 60: n[multiplicity:'2'] + He4 + Ce139 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -6781458.660629272 eV vs -7.295e6 eV!
    ```

23. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
    reaction label 60: n[multiplicity:'2'] + He4 + Ce139 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

    ```
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.4e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.45e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.5e7 eV
    WARNING: Extra zero-probability outgoing energies found at incident energy 1.6e7 eV
            ... plus 4 more instances of this message
    ```

24. Calculated and tabulated Q values disagree.
    reaction label 61: n[multiplicity:'2'] + H1 + Pr142 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -15189814.89717102 eV vs -1.532e7 eV!
    ```

25. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
    reaction label 61: n[multiplicity:'2'] + H1 + Pr142 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

```
        WARNING: Extra zero-probability outgoing energies found at incident energy 1.8e7 eV
        WARNING: Extra zero-probability outgoing energies found at incident energy 1.9e7 eV
        WARNING: Extra zero-probability outgoing energies found at incident energy 2.e7 eV
```

26. Cross section domain does not match domain of linked reaction cross section sum
    crossSectionSum label 1: (z,n) (Error # 0): summedCrossSectionDomainMismatch

```
        WARNING: Cross section domain does not match domain of linked reaction cross section sum
```

27. Cross section domain does not match domain of linked reaction cross section sum
    crossSectionSum label 2: (z,p) (Error # 0): summedCrossSectionDomainMismatch

```
        WARNING: Cross section domain does not match domain of linked reaction cross section sum
```

- `njoy2012` Warnings:

  1. Recoil is not given, so one-particle recoil approximation used.
     heatr...prompt kerma (0): HEATR/hinit (4)

```
        ---message from hinit---mf6, mt102 does not give recoil za= 60145
                          photon momentum recoil used.
```